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the most elevated ideal of any university in the world; and I believe it to be so much the better for the individual students. At any rate, I can only record my personal observation in two visits, after having endeavored at many universities to learn to appreciate the atmospheres of such places, that there is a sweetness and a strength there quite exceptional. I am far from regretting that the institution has been through tribulations, and has purged itself of every element alien to its idea. To-day the good seed has germinated, so that it can no longer be choked by lower motives if it now only receives what is necessary to its continuance. It is earnestly to be hoped that it may speedily find its Constantine or its Helena. If not, one can but pity the family of its founder, which will have missed so narrowly a crown of high distinction. In that case, one must believe that among the American people, so appreciative of broad ideas, there may be found some thousands of persons, who whether they are quite sure of the immeasurable superiority of the aims of Clark or not, will at any rate feel that one institution of this peculiar kind ought to exist in the land, and will come forward with annual subscriptions to enable it to tide over a prolongation of its period of trial, and to wait for the rescue that sooner or later, from some quarter or another, is sure to come. The volume before us affords indisputable proof of the extraordinary interest and respect which this small institution commands from every genuine man of science the whole world over. Mr. Clark has, at any rate, drawn the eyes of all Europe with expectation upon the city of Worcester. To allow the university, after this, to sink into nothingness would be to make a nasty smirch upon the scutcheon of America, that would long remain an offence to all our eyes.

C. S. PEIRCE.

Analysis of White Paints. A Collection of Notes on the Chemical Analysis of White and Tinted Paints. By GEORGE H. ELLIS, B.Sc., Analytical Chemist and Assayer. Late Chemist Chicago, Burlington and Quincy Railway Company. The Technical Press, Evanston, Ill. Pp. 61 + vi.

This little book is a reprint of a series of

papers originally published in the *Paint, Oil and Drug Review*, and their aim is to give a detailed description of the best methods of analysis of white and tinted paints. The book is intended not only as a reference book for experienced chemists, but also as a complete manual for the use of those who have little knowledge of chemistry. Thus a full description is given of the analysis of clay. It is a lamentable fact that so many manufacturers who are just coming to feel the need of a chemist in their works, do not recognize the desirability of having as chemist one who has at least a moderately thorough knowledge of chemistry. A book like the one before us will be of great value to the inexperienced paint-chemist, and will not come amiss to others. It will be of most value, however, to those chemists into whose hands there comes only occasionally a sample of paint for analysis. Chapter 1 is on preparing samples for analysis. Chapter 2 describes the different white pigments, and their qualitative and quantitative analysis, with specimen analyses by the author. The pigments considered are calcium carbonate, gypsum, china clay, silica, barium sulfate, magnesium carbonate, magnesium silicate, zinc oxid, and white lead. Chapter 3 presents schemes for the analysis of mixed paints, a problem often difficult owing to the presence of several different pigments as well as perhaps adulterants. The methods given are excellent and are described with clearness. The use of barium carbonate as a white pigment is referred to only in a brief note, where it is stated to be little used in American paints. I do not recall having seen any mention elsewhere of its use, but a highly praised paint came into my hands lately, which consisted of nearly equal parts barium carbonate and zinc oxid.

An appendix gives a brief scheme for the estimation of turpentine, benzin and water, a list of the principal pigments with their trade names, atomic weight table, and metric conversion table. The book has a full index. It is to be hoped that the author will supplement this book by a similar one on colored pigments and tints and their analysis.

JAS. LEWIS HOWE.

The Refraction of the Eye, Including a Complete Treatise on Ophthalmometry. A Clinical Text-